

**Amendments to the Claims:**

The following listing of claims replaces all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (withdrawn): A method for improved adhesion of an optical coating to a polarizing film incorporated onto an optical-quality plastic construct comprising: exposing the polarizing film to a caustic solution at a concentration greater than or equal to 10% to treat the film; and applying an optical coating to the treated film for effecting a coated, polarized optical-quality plastic part.

Claim 2 (withdrawn): A method for improved adhesion according to claim 1, further comprising the step of making grooves on a surface of the film, wherein the grooves have a substantially uniform direction.

Claim 3 (withdrawn): A method for improved adhesion according to claim 2, wherein the polarizing film has a stretch direction, and wherein the grooves are substantially aligned with the stretch direction.

Claim 4 (withdrawn): A method for improved adhesion according to claim 1, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film.

Claim 5 (withdrawn): A method for improved adhesion according to claim 2, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film.

Claim 6 (withdrawn): A method for improved adhesion according to claim 3, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film.

Claim 7 (withdrawn): A method for improved adhesion according to claim 2, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film, and wherein

the film is withdrawn from the optical coating solution in a direction substantially perpendicular  
5 to the direction of the grooves formed on the surface of the film.

Claim 8 (withdrawn): A method for improved adhesion according to claim 1, further comprising the step of peening a surface of the film.

Claim 9 (withdrawn): A method for improved adhesion according to claim 8, wherein the peening step comprises exposing the surface of the film to plasmas or coronas of inert or heavy gases.

Claim 10 (withdrawn): A method for improved adhesion according to claim 1, further comprising the step of applying an additional optical coating onto the applied coating.

Claim 11 (currently amended): A method for improved adhesion according to claim [[1]] 20, wherein the optical coating enhances the optical properties of the plastic part.

Claim 12 (currently amended): A method for improved adhesion according to claim [[1]] 20, wherein the optical coating enhances the mechanical properties of the plastic part.

Claim 13 (withdrawn): A method for improved adhesion according to claim 1, wherein the optical-quality plastic part is selected from the group consisting of ophthalmic lenses, lenses, goggles, visors, shields, facemasks, polarized display devices, and windows that require low haze.

Claim 14 (currently amended): A method for improved adhesion according to claim [[1]] 20, wherein the optical-quality plastic construct is comprised of a thermoplastic material.

Claim 15 (withdrawn): A method for improved adhesion according to claim 1, wherein the film is comprised of polyethylene terephthalate.

Claim 16 (currently amended): A method for improved adhesion according to claim [[15]] 29, wherein the film is further comprised of a crystalline or semi-crystalline naphthalene dicarboxylic acid polyester.

Claim 17 (withdrawn): A method for improved adhesion according to claim 1, wherein the caustic solution has a concentration in the range of approximately 10% to 30%.

Claim 18 (currently amended): A method for improved adhesion according to claim [[1]] 20, wherein the optical coating is selected from the group consisting of a thermal or ultraviolet cured hard coat, an anti-reflection coating, a mirrored coating, and an anti-fogging coating.

Claim 19 (currently amended): A method for improved adhesion according to claim [[1]], wherein the optical coating integrally bonds to the film after the step of applying an optical coating to the treated film.

Claim 20 (original): A method for improved adhesion of an optical coating to a polarizing film incorporated onto an optical-quality plastic construct comprising:

forming grooves having a substantially uniform direction on a surface of the film;  
dipping the film incorporated onto the construct in a solution comprised of the

5 optical coating; and

withdrawing the film in a direction substantially perpendicular to the direction of the grooves.

Claim 21 (original): A method for improved adhesion according to claim 20, wherein the grooves are substantially uniform.

Claim 22 (original): A method for improved adhesion according to claim 21, wherein the substantially uniform grooves are formed by consistent pressure applied over substantially all of the surface of the film.

Claim 23 (original): A method for improved adhesion according to claim 20, wherein the polarizing film has a stretch direction, and wherein the grooves are substantially aligned with the stretch direction.

Claim 24 (original): A method for improved adhesion according to claim 20, further comprising exposing the polarizing film to a caustic solution to treat the film before the

step of dipping the film incorporated onto the construct in a solution comprised of the optical coating.

Claim 25 (original): A method for improved adhesion according to claim 24, wherein the caustic solution has a concentration greater than or equal to 10%.

Claim 26 (original): A method for improved adhesion according to claim 25, wherein the caustic solution has a concentration in the range of approximately 10% to 30%.

Claim 27 (original): A method for improved adhesion according to claim 20, further comprising the step of applying an additional optical coating onto the applied coating.

Claim 28 (original): A method for improved adhesion according to claim 20, wherein the optical-quality plastic part is selected from the group consisting of ophthalmic lenses, lenses, goggles, visors, shields, facemasks, polarized display devices, and windows that require low haze.

Claim 29 (original): A method for improved adhesion according to claim 20, wherein the polarizing film is comprised of polyethylene terephthalate.

Claim 30 (original): A method for improved adhesion according to claim 20, wherein the optical coating is comprised of a thermal cured hard coat.

Claim 31 (withdrawn): A method for improved adhesion of an optical coating to a polarizing film incorporated onto an optical-quality plastic construct comprising:  
physically treating a surface of the film to create a substantially uniform surface;  
chemically treating the substantially uniform surface by exposing the film to a  
5 caustic solution at a concentration greater than or equal to 10% to treat the film; and  
applying an optical coating to the treated film for effecting a coated, polarized  
optical-quality plastic part.

Claim 32 (withdrawn): A method for improved adhesion according to claim 31, wherein the step of physically treating the surface comprises forming grooves having a substantially uniform direction.

Claim 33 (withdrawn): A method for improved adhesion according to claim 31, wherein the step of physically treating the surface comprises peening the film.

Claim 34 (withdrawn): A method for improved adhesion according to claim 31, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film.

Claim 35 (withdrawn) A method for improved adhesion according to claim 32, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film.

Claim 36 (withdrawn): A method for improved adhesion according to claim 33, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film.

Claim 37 (withdrawn): A method for improved adhesion according to claim 32, wherein the step of applying an optical coating comprises dipping the film incorporated onto the construct in a solution comprised of the optical coating and withdrawing the film, and wherein the film is withdrawn from the optical coating solution in a direction substantially perpendicular to the grooves.

Claim 38 (withdrawn): A method for improved adhesion according to claim 32, wherein the polarizing film has a stretch direction, and wherein the grooves are substantially aligned with the stretch direction.

Claim 39 (withdrawn): A method for improved adhesion according to claim 37, wherein the polarizing film has a stretch direction, and wherein the grooves are substantially aligned with the stretch direction.

Claim 40 (withdrawn): A method for improved adhesion according to claim 31, further comprising the step of applying an additional optical coating onto the applied coating.

Claim 41 (withdrawn): A method for improved adhesion according to claim 31, wherein the optical-quality plastic part is selected from the group consisting of ophthalmic lenses, lenses, goggles, visors, shields, facemasks, polarized display devices, and windows that require low haze.

Claim 42 (withdrawn): A method for improved adhesion according to claim 31, wherein the optical-quality plastic construct is comprised of a thermoplastic material.

Claim 43 (withdrawn): A method for improved adhesion according to claim 31, wherein the film is comprised of polyethylene terephthalate.

Claim 44 (withdrawn): A method for improved adhesion according to claim 31, wherein the caustic solution has a concentration in the range of approximately 10% to 30%.

Claim 45 (withdrawn): A method for improved adhesion according to claim 31, wherein the optical coating is a thermal cured hard coat.

Claim 46 (withdrawn): A method for improved adhesion according to claim 31, wherein the optical coating integrally bonds to the film after the step of applying an optical coating to the treated film.

Claim 47 (withdrawn): A method for improved adhesion of an optical coating to a polarizing film incorporated onto an optical-quality plastic construct comprising:  
physically treating a surface of the film by plasma exposure to peen the surface and thereby create a substantially uniform surface;  
5 chemically treating the substantially uniform surface by plasma exposure; and  
applying an optical coating to the treated film for effecting a coated, polarized optical-quality plastic part.

Claim 48 (withdrawn): A method for improved adhesion according to claim 47, wherein the optical-quality plastic part is selected from the group consisting of ophthalmic lenses, lenses, goggles, visors, shields, facemasks, polarized display devices, and windows that require low haze.

Claim 49 (withdrawn): A method for improved adhesion according to claim 47, wherein the optical-quality plastic construct is comprised of a thermoplastic material.

Claim 50 (withdrawn): A method for improved adhesion according to claim 47, wherein the film is comprised of polyethylene terephthalate.

Claim 51 (withdrawn): A method for improved adhesion according to claim 47, wherein the optical coating is a thermal cured hard coat.

Claim 52 (withdrawn): A method for improved adhesion according to claim 47, wherein the optical coating integrally bonds to the film after the step of applying an optical coating to the treated film.